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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Eiji Shimada, et al.

Attorney Docket No.: UCALP039

Patent: 6,798,120 131

Issued: September 28, 2004

Title: AN APPARATUS AND METHOD FOR

MANIPULATION OF AN OBJECT

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on October 20, 2004 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450

Alexandria, VA #2318-145

Signed:

alerie Olsen

REQUEST FOR CERTIFICATE OF CORRECTION OF OFFICE MISTAKE

(35 U.S.C. §254, 37 CFR §1.322)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Attn: Certificate of Correction

Dear Sir:

Certificate
OCT 2 6 2004

of Correction

Attached is Form PTO-1050 (Certificate of Correction) at least one copy of which is suitable for printing. The errors together with the exact page and line number where the errors are shown correctly in the application file are as follows:

DRAWINGS:

1. The attached replacement sheets of drawings include changes to Figures 2 and 7A-7C. These sheets replaced the original sheets that included Figures 2 and 7A-7C. In Figure 2, reference numbers 14, 16, 18 and 20 were deleted, and lead lines were added for Arm 1 and Arm 2. In Figures 7A-7C, reference numbers 14 and 16 were replaced by reference numbers 14a and 16a, and reference numbers 14b and 16b were added.

These replacement sheets were presented in Applicant's Amendment received by the Patent and Trademark Office on February 2, 2004, and were accepted by the Examiner as indicated in the Notice of Allowability dated March 5, 2004

SPECIFICATION:

- 1. Column 3, after line 45, between the description of FIGS 11 and 13, add the following paragraph:
- --FIGS. 12A-12C are graphical representations of a moment at a wall in aligning an object using the technique illustrated in FIG. 11.--

As noted in the Supplemental Notice of Allowability of August 4, 2004, the specification as filed included this description of FIGS. 12A-12C and no conflict existed between the drawings and the Description of Drawings.

The Patentee hereby requests expedited issuance of the Certificate of Correction because the error lies with the Office and because the error is clearly disclosed in the records of the Office. As required for expedited issuance, enclosed is documentation that unequivocally supports the patentee's assertion without needing reference to the patent file wrapper.

It is noted that the above-identified errors were printing errors that apparently occurred during the printing process. Accordingly, it is believed that no fees are due in connection with the filing of this Request for Certificate of Correction. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. UCALP039).

Dated: 10 20 04

Respectfully submitted,

BEYER WEAVER & THOMAS, LLP

William J. Egan, III Registration No. 28,411

P.O. Box 778 Berkeley, CA 94704-0778 (510) 843-6200

Palent and Trademark Office; U.S. DEPAKTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB Control number

(Also Form PT-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,798,120

: September 28, 2004 DATED

INVENTOR(S): Ronald S. Fearing and Eijii Shimada

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the drawings, Sheet 1, Fig. 2, is replaced by the attached Replacement Sheet 1. Sheet 5, Figs. 7A, 7B, 7C, are replaced by the attached Replacement Sheet 5. In Fig. 2, reference numbers 14, 16, 18 and 20 have been deleted, and lead lines have been added for Arm 1 and Arm 2. In Figs. 7A-7C, reference numbers 14 and 16 have been replaced by reference numbers 14a and 16a, and reference numbers 14b and 16b have been added.

Column 3, after line 45, between the description of FIGS. 11 and 13, add the following paragraph: -- FIGS. 12A-12C are graphical representations of a moment at a wall in aligning an object using the technique illustrated in FIG. 11.--

MAILING ADDRESS OF SENDER:

PATENT NO. 6,798,120 No. of Additional Copies

ATTORNEY

BEYER WEAVER & THOMAS, LLP

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Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any P.O. Box 778 comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

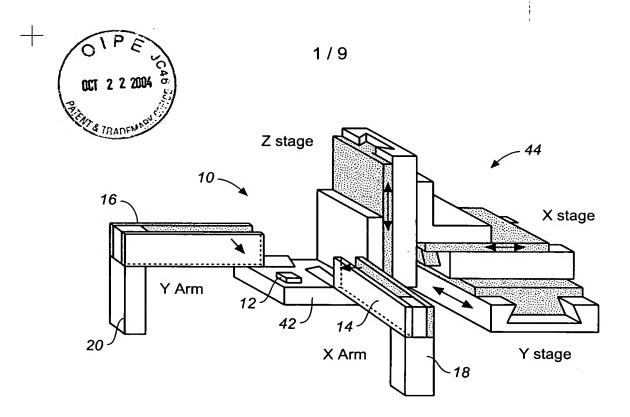


FIG._1

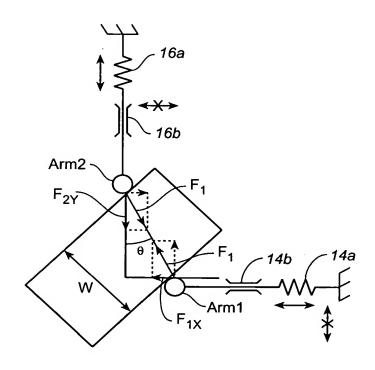


FIG._2

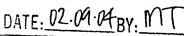


Docket #	UCALP039	By:	WJE/vo	Date of this mailing: January 28, 2004
Appl'n#:	10/004,235	Filing Date:	10/31/01	Express Mail #
Inv(s)	Eiji Shimada, et al.			
Title:	AN APPARATUS AND METHOD FOR MANIPULATION OF AN OBJECT			

The following have been received in the U.S. Patent Office on the date stamped hereon:

ltem	Description	# Pgs
1.	Amendment w/certificate of mailing and attached replacement sheets and annotated sheets and articles	39
	IPE	
١.	FEB 0.2 2004 (5)	•
5. 5.		
7. 3.	The Theorem	
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10.		

BEYER WEAVER & THOMAS, LLP SEEN/CONFIRMED BY DOCKETING DEPT.





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Eiji Shimada, et alo IP

Application No.: 10/004,235

Filed: October 31, 2001

Title: AN APPARATUS AND METHOD FOR

MANIPULATION OF AN OBJECT

Attorney Docket No.: UCALP039

Examiner: Mark Ösborne Budd

Group: 2834

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on January 28 2004 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450

Alexandria, VA 22313-1450

Signed:

Valerie Olsen

AMENDMENT

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action mailed October 30, 2003, a response to which is due January 30, 2004, please enter the following amendments and consider the following remarks:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Drawings begin on page 3 of this paper and include both an attached replacement sheet and an annotated sheet showing changes.

Remarks/Arguments begins on page 4 of this paper.

Amendments to the Specification:

Please replace the last paragraph on page 5, lines 26 to 27 with the following amended paragraph:

FIG 2 is a schematic representation of a grasping configuration, showing the equivalent beam stiffness of the x- and y-arms, of an apparatus for manipulating an object.



The attached sheets of drawings include changes to Figures 2 and 7A-7C. These sheets replace the original sheets that included Figures 2 and 7A-7C. In Figure 2, reference numbers 14, 16, 18 and 20 have been deleted, and lead lines have been added for Arm 1 and Arm 2. In Figures 7A-7C, reference numbers 14 and 16 have been replaced by reference numbers 14a and 16a, and reference numbers 14b ad 16b have been added.

Attachment:

Replacement Sheet

Annotated Sheet Showing Changes

REMARKS

The claims pending in the subject application, claims 1-26, stand rejected under 35 U.S.C. 112. According to the examiner, there is a conflict in what is shown in Figures 1 and 2.

As discussed below, it is respectfully submitted that Figures 1 and 2 are consistent. However, to clarify what is shown in these figures, Figure 2 and Figures 7A-7C have been amended.

Figure 1 of the subject application shows a cantilever beam 14 mounted parallel to the y-axis and fixed to a support 18. The beam 14 bends with negligible extension, and the motion of the tip of the beam is substantially in the x direction. Thus, the beam 14 is called the x-arm (Arm 1). Also in Figure 1, a cantilever beam 16 is mounted parallel to the x-axis and fixed to a support 20. The beam 16 bends with negligible extension, and the motion of the tip of this beam is substantially in the y direction. Thus, the beam 16 is called the y-arm (Arm 2).

To simplify the analysis of cantilever beam stiffness, it is common to schematically represent a cantilever by a linear spring at the end of the beam, oriented perpendicular to the cantilever beam, and parallel to the beam bending direction. It is understood that this is an approximation which neglects the extension of the beam. This representation is common in undergraduate mechanical engineering curricula such as at Figure 1 of Glauser et al.,

Mechanical and Aeronautical Engineering Senior Laboratory, pp. 1-10. See, the section entitled "Modeling a Cantilever Beam." Reference can also be made to page 8 of ASEN 2003:

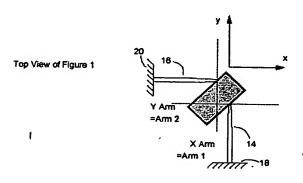
Introduction to Dynamics and Systems Spring 2002, pp. 1-19. See, the section entitled "B.3 Modeling of Vibrations of Cantilever Beams by Elementary Beam Theory." Copies of both of these publications are attached.

Figure 2 schematically represents the equivalent stiffness of the beam 14, the x-arm, and the beam 16, the y-arm. The bending stiffness of the beam 14 is substantially along the x direction and is represented by a virtual spring element 14a. The high stiffness which prevents

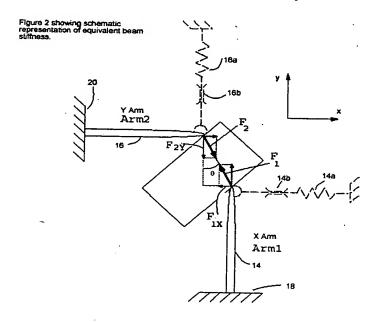
extension of the beam 14 in the y direction is represented by a virtual constraint element 14b.

The bending stiffness of the beam 16 is substantially along the y direction is represented by a virtual spring element 16a. The high stiffness which prevents extension of the beam 16 in the x direction is represented by a virtual constraint element 16b.

By way of further explanation, a simplified plan view of the system of Figure 1 of the subject specification is shown below:



Combining this view of Figure 1 with that of Figure 2, as illustrated below, shows the schematic representation of the equivalent beam stiffness:



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Thus, as can be seen from the subject specification, as well as from the above explanation, what is depicted in Figures 1 and 2 is consistent with the operation of the claimed apparatus for manipulating an object.

In view of the foregoing, it is submitted that all the claims are now in condition for allowance. Accordingly, allowance of the claims at the earliest possible date is requested.

If prosecution of this application can be assisted by telephone, the Examiner is requested to call Applicants' undersigned attorney at (510) 495-3206.

Please apply any other charges or credits to Deposit Account No. 500388.

Respectfully submitted,

BEYER WEAVER & THOMAS, LLP

Date: _____ 28 04

William J. Egan, III Reg. No. 28,411

P.O. Box 778 Berkeley, CA 94704-0778 Appln. No. 10/004,235
Amdt. Dated January 28, 2004
Reply to Office Action dated October 30, 2003
Replacement Sheet

OCT 2 2 2004

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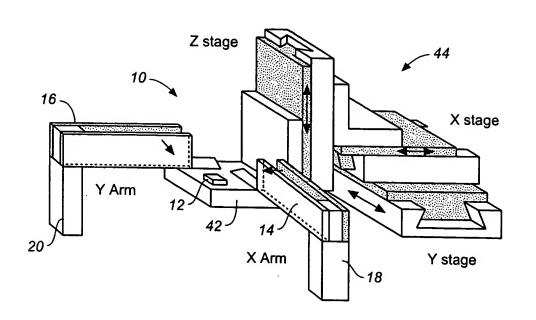


FIG._1

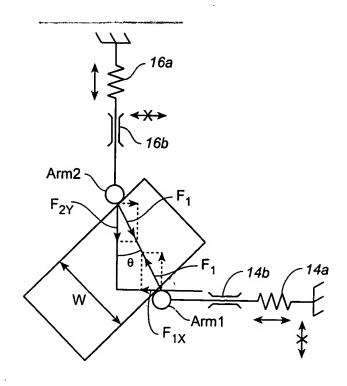
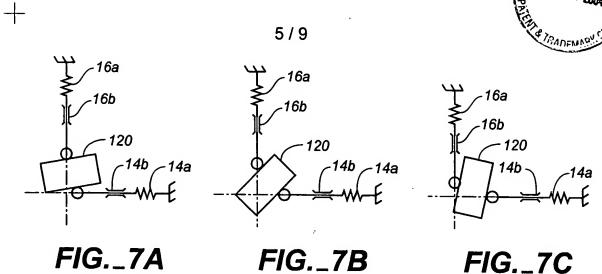
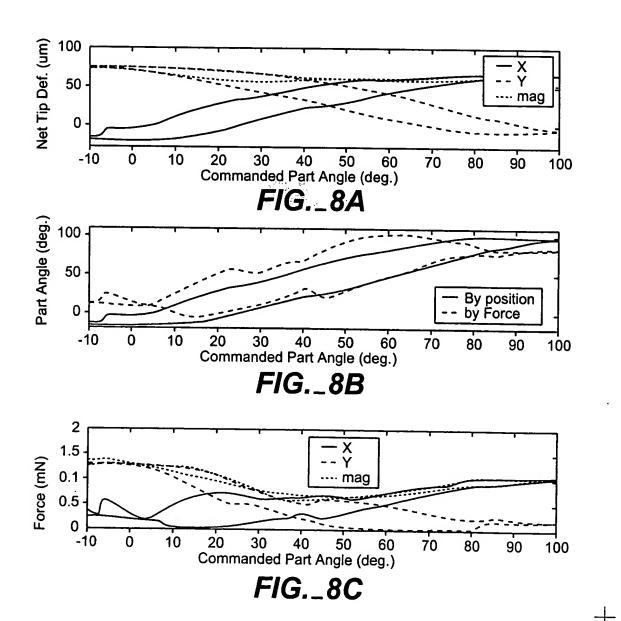


FIG._2







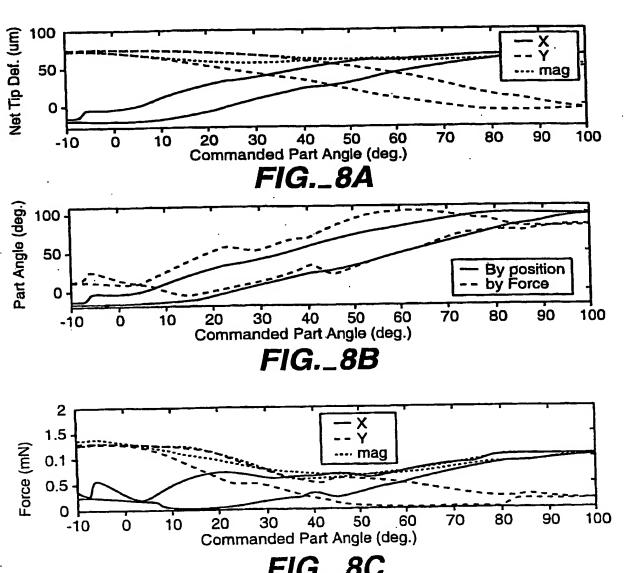
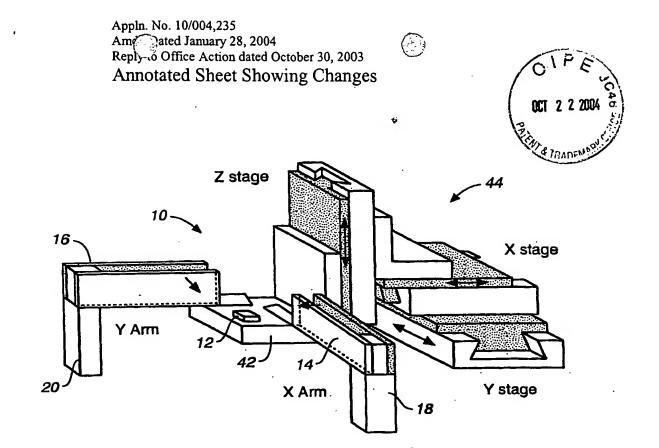


FIG._8C



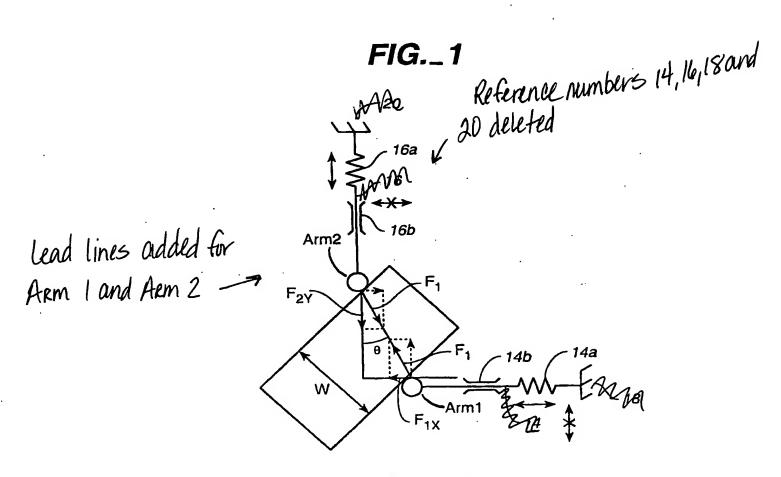
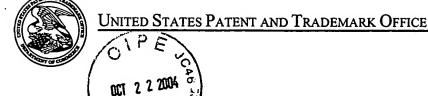


FIG._2

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03/05/2004

a UCALPO39

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DTICE OF ALLOWANCE AND FEE(S) DUE

FISH & RICHARDSON P.C. 3300 DAIN RAUSCHER PLAZA MINNEAPOLIS, MN 55402

26181

DECETVED MAR - 8 2004

EXAMINER
BUDD, MARK OSBORNE

ART UNIT PAPER NUMBER

2834 DATE MAILED: 03/05/2004

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/004,235 10/31/2001 Ronald S. Fearing 07043-100001 / B01-005 7890

TITLE OF INVENTION: APPARATUS AND METHOD FOR MANIPULATION OF AN OBJECT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	06/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the IEEE Shown above.

cant caims SMALL ENTITY status.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required): Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

DOCKETED:

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,235	10/31/2001	Ronald S. Fearing	07043-100001 / B01-005	7890
26181	7590 03/05/2004		EXAM	INER
FISH & RICHA		OIPE	BUDD, MAR	K OSBORNE
3300 DAIN RAU MINNEAPOLIS,		C	ART UNIT	PAPER NUMBER
		OCT 2 2 2004 (5)	2834	
			DATE MAILED: 03/05/200	4
		REAL TRADEMAN		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Application No. Applicant(s)	
Notice of Allowability 10/004,235 FEARING ET AL.	
Mark Budd 2834	
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.	e. THIS e initiative
1. 🔀 This communication is responsive to <u>the papers filed 2-2-04</u> .	
2. The allowed claim(s) is/are <u>1-26</u> .	
3. 🔀 The drawings filed on <u>2-2-04</u> are accepted by the Examiner.	
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirement below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.	ents E OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 5. Notice of Informal Patent Application (PTO-152) 6. Interview Summary (PTO-413), Paper No./Mail Date 7. Examiner's Amendment/Comment 8. Examiner's Amendment/Comment 9. Other Mark Budd Primary Examiner	
Art Unit: 2834	



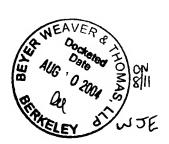
United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/004,235 10/31/2001 Ronald S. Fearing 07043-100001 / B01-005 7890 LCALP039 22434 7590 08/04/2004 EXAMINER **BEYER WEAVER & THOMAS LLP** BUDD, MARK OSBORNE P.O. BOX 778 BERKELEY, CA 94704-0778 ART UNIT PAPER NUMBER 2834 DATE MAILED: 08/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.





Supplemental Notice of Allowability

Application No.	Applicant(s)
10/004,235	FEARING ET AL.
Examiner	Art Unit
Mark Budd	2834

OIA	\
OCT 2 2 2004	<u>:</u>)
TRANSMARY CO	/

All claims being allowable, PROSECUTION ON THE MERITS IS (OR RE herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MF	EMAINS) CLOSED in this application. If not included r appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiative
1. This communication is responsive to THE COMMUNICATION FILE	<u>ED 7-19-04</u> .
2. The allowed claim(s) is/are	
3. The drawings filed on are accepted by the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority under 35 to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received as a copies of the priority documents have been received as a copies of the certified copies of the priority documents. 	eceived.
International Bureau (PCT Rule 17.2(a)).	
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this c noted below. Failure to timely comply will result in ABANDONMENT of THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	communication to file a reply complying with the requirements this application.
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reason	ote the attached EXAMINER'S AMENDMENT or NOTICE OF on(s) why the oath or declaration is deficient.
 6. CORRECTED DRAWINGS (as "replacement sheets") must be subtained including changes required by the Notice of Draftsperson's Part 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amend Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1.84(c)) steach sheet. Replacement sheet(s) should be labeled as such in the header. 7. DEPOSIT OF and/or INFORMATION about the deposit of BI attached Examiner's comment regarding REQUIREMENT FOR THE 	tent Drawing Review (PTO-948) attached drawing Review (PTO-948) attached drawing action of hould be written on the drawings in the front (not the back) of er according to 37 CFR 1.121(d).
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	 5. ☐ Notice of Informal Patent Application (PTO-152) 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 8. ☐ Examiner's Statement of Reasons for Allowance 9. ☒ Other See Continuation Sheet. Mark Budd Primary Examiner Art Unit: 2834



Continuation Sheet (PTOL-37)

Continuation of Attachment(s) 9. Other: APPLICANTS RESPONSE NOTES CORRECTLY THAT THE ORIGIONAL DESCRIPTION OF FIGURES 12A-C IS PROPER AND NO CONFLICT EXHISTS BETWEEN THE DRAWINGS AND THE DESCRIPTION.ALSO APPLICANT IS CORRECT THAT NO DRAWINGS WERE FILED BY APPLICANTS ON 2-2-04.

NAKK O BUDD PRIMARY EXAMINED APT HINT 202



United States Patent and Trademark Office

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOTICE OF DRAWING INCONSISTENCY WITH SPECIFICATION

The drawings filed <u>02-02-2004</u> have been received. However, an inconsistency exists between the drawings and the Brief Description of the Drawings in the specification.

are listed in the Brief Description of the Drawings in the specification but not contained in the Drawings.

Figures 12A, 12B, and 12C are contained in the Drawings but not listed in the Brief Description of the Drawings in the specification.

Applicant is required to correct the above-noted inconsistency within a time period of ONE MONTH or THIRTY (30) DAYS, whichever is longer, from the mailing date of this Notice, or within the time remaining in the time period set forth in the Notice of Allowability (Form PTOL-37) to file corrected drawings, whichever is longer. NO EXTENSION OF THIS TIME PERIOD MAY BE GRANTED UNDER EITHER 37 CFR 1.136 (a) OR (b)

Failure to correct the above noted inconsistency will result in abandonment of the application.

The file will be held in the Publishing Division to await the correction of the inconsistency.

Return Corrected Drawings/Specification to:

Mail Stop Issue Fee Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Office of Patent Publication/Publishing Division Customer Service: 703-308-6789 1-888-786-0101

FORM PTO-1631 (REV. 10-03)

Communication Incorret

ART HINIT 20 4-2-04